

FORM PTO-1449	SERIAL NO. 10/765,718	CASE NO. 7814/95
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE January 26, 2004	GROUP ART UNIT 1765
(use several sheets if necessary)		APPLICANT(S): Ismagilov et al.

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
/Y.G./	A1	2003/0061687 A1	4/3/03	Hansen et al.		

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO
/Y.G./	A2	EP 0 912 238 B1	10/10/01	Europe		
	A3	WO 84/02000	5/24/84	WIPO		
	A4	WO 01/12327 A1	2/22/01	WIPO		
	A5	WO 02/23163 A1	3/21/02	WIPO		
/Y.G./	A6	WO 01/64332 A1	9/7/2001	WIPO		

OTHER ART - NON PATENT LITERATURE DOCUMENTS

(Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.

EXAMINER INITIAL		
/Y.G./	A7	Anna, Shelley A. et al., "Formation of Dispersions Using 'Flow Focusing' in Microchannels", <i>Applied Physics Letters</i> , Vol. 82, No. 3, 2003, pp 364-366.
	A8	Auroux, Pierre-Alain et al., "Micro Total Analysis Systems. 2. Analytical Standard Operations and Applications", <i>Analytical Chemistry</i> , Vol. 74, No. 12, 2002, pp 2637-2652.
	A9	Bico, Jose et al., "Rise of Liquids and Bubbles in Angular Capillary Tubes", <i>Journal of Colloid and Interface Science</i> , Vol. 247, 2002, pp 162-166.
	A10	Bico, Jose et al., "Self-Propelling Slugs", <i>J. Fluid Mech.</i> , Vol. 467, 2002, pp 101-127.
	A11	Bringer, et al., "Microfluidic Systems for Chemical Kinetics That Rely on Chaotic Mixing in Droplets", <i>Phil. Trans. R. Soc. Lond.</i> , pp. 1-18, 2004.
	A12	Burns, J.R. et al., "The Intensification of Rapid Reactions in Multiphase Systems Using Slug Flow in Capillaries", <i>Lab on a Chip</i> , Vol. 1, 2001 pp 10-15.
	A13	Burns, Mark et al., "An Integrated Nanoliter DNA Analysis Device", <i>Science</i> , Vol. 282, 1998, pp 484-487.
	A14	Chan, Emory M. et al., "Size-Controlled Growth of CdSe Nanocrystals in Microfluidic Reactors", <i>Nano Letters</i> , Vol. 3, No. 2, 2003, pp 199-201.
/Y.G./	A15	Cho, Sung Kwon et al., "Splitting a Liquid Droplet for Electrowetting-Based Microfluidics", <i>Proceedings of 2001 ASME International Mechanical Engineering Congress and Exposition</i> , 2001, pp 1-7.

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Y.G./	A16	Duffy, David C. et al., "Rapid Prototyping of Microfluidic Systems in Poly(dimethylsiloxane)", <i>Analytical Chemistry</i> , Vol. 70, 1998, pp 4974-4984.
	A17	Edel, Joshua B. et al., "Microfluidic Routes to the Controlled Production of Nanoparticles", <i>Chemical Communications</i> , 2002 pp 1136-1137.
	A18	Eggers, Jens et al., "Coalescence of Liquid Drops", <i>J. Fluid Mech.</i> , Vol. 401, 1999, pp 293-310.
	A19	Fowler, Jesse et al., "Enhancement of Mixing By Droplet-Based Microfluidics", 2002 Institute of Electrical Engineers 15th International Conference on Micro Electro Mechanical Systems, 2002, pp 97-100.
	*	A20 Gerdts, et al., "A Synthetic Reaction Network: Chemical Amplification Using Nonequilibrium Autocatalytic Reactions Coupled in Time", <i>J. Am. Chem. Soc.</i>, vol. 126, pp. 6327-6331, 2004.
	A21	Handique, K. et al., "On-Chip Thermopneumatic Pressure for Discrete Drop Pumping", <i>Analytical Chemistry</i> , Vol. 73, 2001, pp 1831-1838.
	A22	Hansen, Carl L. et al., "A Robust and Scalable Microfluidic Metering Method That Allows Protein Crystal Growth by Free Interface Diffusion", <i>PNAS</i> , Vol. 99, No. 26, 2002, pp 16531-16536.
	A23	Harries, N. et al., "A Numerical Model for Segmented Flow in a Microreactor", <i>International Journal of Heat and Mass Transfer</i> , Vol. 46, 2003, pp 3313-3322.
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	A26	Knight, James B., "Hydrodynamic Focusing on a Silicon Chip: Mixing Nanoliters in Microseconds", <i>Physical Review Letters</i> , Vol. 80, No. 17, 1998, pp 3863-3866.
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	A28	McDonald, J. Cooper et al., "Fabrication of Microfluidic Systems in Poly(dimethylsiloxane)", <i>Electrophoresis</i> , Vol. 21, 2000, pp 27-40.
	A29	Nisisako, Takasi et al., "Droplet Formation in a Microchannel Network", <i>Lab on a Chip</i> , Vol. 2, 2002, pp 24-26.
	A30	Pabit, Suzette A. et al., "Laminar-Flow Fluid Mixer for Fast Fluorescence Kinetics Studies", <i>Biophysical Journal</i> , Vol. 83, 2002, pp 2872-2878.
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	*	A33 Chestopalov, et al., "Multi-Step Synthesis of Nanoparticles Performed on Millisecond Time Scale in a Microfluidic Droplet-Based System", <i>The Royal Society of Chemistry</i>, vol. 4, pp. 316-321, 2004.
Y.G./	A34	Song, et al., "A Microfluidic System for Controlling Reaction Networks in Time", <i>Angew. Chem. Int. Ed.</i> , vol. 42, no. 7, pp. 768-772, 2003.

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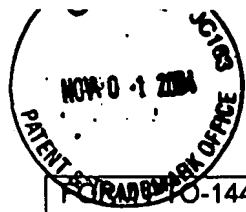
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*	A35	Song, et al., "Experimental Test of Scaling of Mixing by Chaotic Advection in Droplets Moving Through Microfluidic Channels", <i>Applied Physics Letters</i>, vol. 83, no. 22, pp. 4664-4666, 2003.
*	A36	Song, et al., "Millisecond Kinetics on a Microfluidic Chip Using Nanoliters of Reagents", <i>J. Am. Chem. Soc.</i>, vol. 125, pp. 14613-14619, 2003.
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	A38	Stroock, Abraham D. et al., "Chaotic Mixer for Microchannels", <i>Science</i> , Vol. 295, 2002, pp 647-651.
	A39	Sugiura, Shinji et al., "Effect of Channel Structure on Microchannel Emulsification", <i>Langmuir</i> , Vol. 18, 2002, pp 5708-5712.
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	A41	Taniguchi, Tomohiro et al., "Chemical Reactions in Microdroplets by Electrostatic Manipulation of Droplets in Liquid Media", <i>Lab on a Chip</i> , Vol. 2, 2002, pp 19-23.
*	A42	Thorsen, et al., "Microfluidic Large-Scale Integration", <i>Science</i>, vol. 298, pp. 580-584, 2002.
	A43	Thorsen, Todd et al., "Dynamic Pattern Formation in a Vesicle-Generating Microfluidic Device", <i>Physical Review Letters</i> , Vol. 86, No. 18, 2001, pp 4163-4166.
*	A44	Tice, "Effects of Viscosity on Droplet Formation and Mixing in Microfluidic Channels", <i>Analytica Chimica Acta</i>, vol. 507, pp. 73-77, 2004.
*	A45	Tice, et al., "Formation of Droplets and Mixing in Multiphase Microfluidics at Low Values of the Reynolds and the Capillary Numbers", <i>Langmuir</i>, vol. 19, pp. 9127-9133, 2003.
	A46	Tokeshi, Manabu et al., "Continuous-Flow Chemical Processing on a Microchip by Combining Microunit Operations and a Multiphase Flow Network", <i>Analytical Chemistry</i> , Vol. 74, No. 7, 2002, pp 1565-1571.
	A47	Umbanhowar, P.B. et al., "Monodisperse Emulsion Generation Via Drop Break Off in a Coflowing Stream", <i>Langmuir</i> , Vol. 16, 2000, pp 347-351.
	A48	Wang, Hongzhi et al., "Preparation of Titania Particles Utilizing the Insoluble Phase Interface in a Microchannel Reactor", <i>Chemical Communications</i> , 2002, pp 1462-1463.
/Y.G./	A49	Zhao, Bin et al., "Control and Applications of Immiscible Liquids in Microchannels", <i>J. Am. Chem. Soc.</i> , Vol. 124, 2002, pp 5284-5285.
*	A50	Zheng et al., "A Droplet-Based, Composite PDMS/Glass Capillary Microfluidic System for Evaluating Protein Crystallization Conditions by Microbatch and Vapor-Diffusion Methods with On-Chip X-Ray Diffraction", <i>Angew. Chem.</i>, pp. 1-4, 2004.
*	A51	Zheng, et al., "Screening of Protein Crystallization Conditions on a Microfluidic Chip Using Nanoliter-Size Droplets", <i>Journal of the American Chemical Society</i>, vol. 125, no. 37, pp. 11170-11171, 2003.

* the references were not submitted in either application

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APPLICANT(S): RUSTEM F. ISMAGILOV et al.		

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
/Y.G./	A1	US 2003/0230486 A1	12/18/03	Chen et al.		
/Y.G./	A2	US 2004/0188254 A1	09/30/04	Spaid		
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Y.G./	A1	5,185,099	02/09/93	Delpuech, et al.		
Y.G./	A2	US 2002/058332 A1	05/16/2002	Quake et al.		
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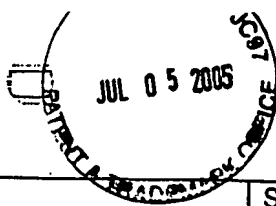
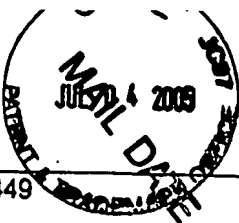
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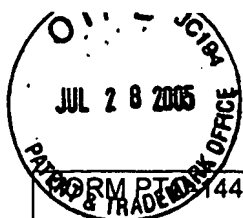
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/Y.G./	A1	NISISAKO, Takasi et al., "Formation of Droplets Using Branch Channels in a Microfluidic Circuit", SICE, August 5-7, 2002, pp. 1262-1264
/Y.G./	A2	SEONG, Gi Hun et al., "Efficient Mixing and Reactions Within Microfluidic Channels Using Microbead-Supported Catalysts", JACS Communications, Published on the Web 10/17/2002, pp. 13360-13361
/Y.G./	A3	SEONG, Gi Hun et al., "Fabrication of Microchambers Defined by Photopolymerized Hydrogels and Weirs Within Microfluidic Systems: Application to DNA Hybridization", Analytical Chemistry, Vol. 74, No. 14, July 15, 2002, pp. 3372-3377

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/Y.G./	A1	6,797,056 B2	09/28/04	David		
	A2	5,872,010	02/16/99	Karger et al.		
	A3	6,409,832 B2	06/25/02	Weigl et al.		
	A4	6,630,006 B2	10/07/03	Santarsiero et al.		
/Y.G./	A5	6,872,250 B2	03/29/05	David et al.		
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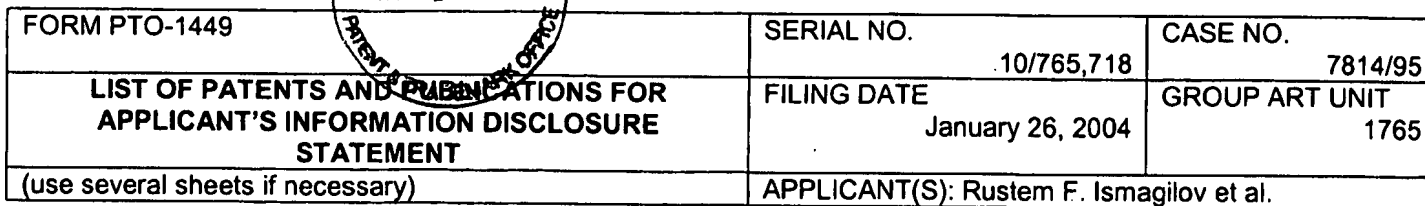
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/Y.G./	C1	6,296,673	10/02/2001	Santarsiero et al.		

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